ATTACHMENT J9

Great Falls IAP (ANG) Electric Distribution System

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J9 Great Falls IAP (ANG) Electric Distribution System

J9.1 Great Falls IAP (ANG) Overview

The 120th Fighter Wing (FW) of the Montana Air National Guard occupies 141 acres of leased land on the Great Falls International Airport (IAP), located approximately 3 miles southwest of downtown Great Falls, Montana. The 120th FW flies a general-purpose mission, including air defense, utilizing the F-16 Falcon. The 120th FW occupies three administrative, one services, and 43 industrial buildings totaling approximately 392,372 square feet with 350 full-time personnel. A unit training drill is conducted twice a month and results in a surge of up to a total of 943 personnel.

J9.2 Electric Distribution System Description

J9.2.1 Electric Distribution System Fixed Equipment Inventory

The Great Falls IAP (ANG) electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, manholes, pullboxes and ductbanks. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

?? Airfield Lighting.

?? Parking Lot Lights.

?? Street Lights

?? Circuits serving the aircraft arresting barrier pits

?? Montana Power owned electric meters

?? Montana Power owned transformer and circuits that serve the Fire House (Building 11).

J9.2.1.1 Description

Power is provided by Montana Power and enters the base and is metered at one location. It is delivered and distributed at 12.42 kV through a wye configured underground looped system with some dead-end branches. The primary distribution system consists of 3-phase underground circuits

rated at 15 kV. There are approximately 9,980 linear feet of three phase, 3-wire circuits and 10,030 linear feet of 1-wire ground in ductbanks. The ductbanks are buried at an average depth of three feet and are marked with tracer wire. Multiple branches feed 27 three phase pad mounted transformers ranging from 25 to 2000 kVA and two single phase transformers from 25 kVA to 37.5 kVA. The system includes 5 manholes, 20 switches and 1 pullbox. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J9.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Great Falls IAP (ANG) electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System Great Falls IAP (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits (in ductbanks)	AWG			
3-ph, 3-wire, 15 kV, w/600 V ground	#2 Copper	6,420	LF	1998
3-ph, 3-wire, 15 kV, w/600 V ground	#2 Copper	3,560	LF	1992
1-ph, 1-wire, 15 kV	#2	2,000	LF	1984
1-ph, 1-wire, 15 kV	#2	890	LF	1997
1-ph, 1-wire, 600 V	#2	4,000	LF	1984
1-ph, 1-wire, 600 V	#2	2,890	LF	1997
1-ph, 1-wire, 600 V	#2	230	LF	1997
3-Phase Transformers	Nom kVA			
Oil Filled, Pad Mounted	45	1	EA	1999
Oil Filled, Pad Mounted	75	1	EA	1997
Oil Filled, Pad Mounted	75	2	EA	1998
Oil Filled, Pad Mounted	112.5	1	EA	1997
Oil Filled, Pad Mounted	112.5	1	EA	1998
Oil Filled, Pad Mounted	112.5	1	EA	1992
Oil Filled, Pad Mounted	150	1	EA	1992
Oil Filled, Pad Mounted	150	1	EA	1988
Oil Filled, Pad Mounted	225	2	EA	1987
Oil Filled, Pad Mounted	225	1	EA	1997
Oil Filled, Pad Mounted	225	1	EA	1988
Oil Filled, Pad Mounted	300	1	EA	1955
Oil Filled, Pad Mounted	300	1	EA	1992

Item	Size	Quantity	Unit	Approximate Year of Construction
Oil Filled, Pad Mounted	300	1	EA	1984
Oil Filled, Pad Mounted	300	1	EA	1976
Oil Filled, Pad Mounted	300	1	EA	1998
Oil Filled, Pad Mounted	500	1	EA	1995
Oil Filled, Pad Mounted	500	3	EA	1992
Oil Filled, Pad Mounted	500	1	EA	1977
Oil Filled, Pad Mounted	500	1	EA	1996
Oil Filled, Pad Mounted	750	1	EA	1996
Dry Type, Pad Mounted	2000	1	EA	1969
1-Phase Transformers	Nom kVA			
Oil Filled, Pad Mounted	25	1	EA	1997
Oil-filled, Pad Mounted	37.5	1	EA	1979
Switch Devices Used for Underground Circuits	(Type)			
	2-way	2	EA	1998
	3-way	3	EA	1998
Pad Mounted Cabinet	4-way	1	EA	1998
Pad Mounted Cabinet	3-way	8	EA	1998
Pad Mounted Cabinet	2-way	4	EA	1998
Pad Mounted Cabinet	2-way	2	EA	1992
Manholes	Type			
4 ft x 4 ft x 3 ft	Pre-cast concrete	5	EA	1988
Pullboxes	Type			
2 ft x 4 ft x 4 ft	Fiberglass	1	EA	1997

Notes:

AWG = American Wire Gauge
EA = each
LF = linear feet
Nom kVA = nominal kilovolt-amperes
ph = phase
kV = kilovolts
V = volts
FT = feet

J9.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to

submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2
Spare Parts
Electric Distribution System Great Falls IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Electric Distribution System Great Falls IAP (ANG)

Description	Quantity	Location	Maker
None			

J9.2.3 Electric Distribution System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4
Manuals, Drawings, and Records
Electric Distribution System Great Falls IAP (ANG)

Qty	Description	Remarks
1	MANG Base Master Plan: Electrical Utility System Maps (electronic copy)	AutoCAD Release Version 2000

J9.3 Specific Service Requirements

The service requirements for the Great Falls IAP (ANG) electric distribution system are as defined in the Section C Description/Specifications/Work Statement. The following requirements are specific to the Great Falls IAP (ANG) electric distribution system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

Although the duct banks are being turned over to the successful offeror, those ducts not currently used for electrical lines will be reserved for the exclusive use of the government. Additional ducts may be made available to the successful offeror at the discretion of the Contracting Officer.

J9.4 Current Service Arrangement

?? **Current Provider:** Montana Power

?? **Average Annual Usage (2000):** 4,605,000 kWh

?? **Maximum Monthly Usage**: 562,000 kWh (October)

?? **Minimum Monthly Usage**: 317,000 kWh (November)

?? **Peak Demand:** 1,014 kW

J9.5 Secondary Metering

J9.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J9.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Great Falls IAP (ANG)

Meter Location	Meter Description
None	

J9.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13 Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J9.6 below.

TABLE 6
New Secondary Meters
Electric Distribution System Great Falls IAP (ANG)

Meter Location	Meter Description
None	

J9.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW Paragraph G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.

2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.

3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters (if any). The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting

Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.

4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J9.7 Energy Saving Projects

IAW Paragraph C.3 Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes: None.

J9.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Great Falls IAP (ANG) boundaries.

J9.9 Off-Installation Sites

No off-installation sites are included in the sale of the Great Falls IAP (ANG) electric distribution system.

J9.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Electric Distribution System Great Falls IAP (ANG)

Location	Description
None	

J9.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Great Falls IAP (ANG) electric distribution system. If the system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 8

System Deficiencies
Electric Distribution System Great Falls IAP (ANG)

Project Location	Project Description
None	